

[illegible]

<110> BLANC, Veronique

THIBAUT, Denis

BAMAS-JACQUES, Nathalie

BLANCHE, Francis

COUZET, Joel

BARRIERE, Jean-Claude

DEBUSSCHE, Laurent

FAMECHON, Alain

PARIS, Jean-Marc

DUTRUC-ROSSET, Gilles

<120> Streptogramins And Method For Preparing Same By
Mutasyntesis

<130> Streptogramin genes

<140> 08/765,907

<141> 1997-03-20

<160> 17

<170> PatentIn Ver. 2.0

<210> 1

<211> 2888

<212> DNA

<213> Streptomyces pristinaespiralis

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<212> PRT

<213> Streptomyces pristinaespiralis

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Gly Ala Val Gly Arg Met Phe Ser His Trp Leu Val Arg Ser Gly Val

20 25 30

Ala Val Thr Trp Leu Asp Val Ala Gly Ala Gly Ala Ala Asp Gly Val

35 40 45

Arg Val Val Ala Gly Asp Val Arg Arg Pro Gly Pro Glu Ala Val Ala

50 55 60

Ala Leu Ala Ala Ala Asp Val Val Val Leu Ala Val Pro Glu Pro Val

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Pro Ala Ala Arg Gln Ala Leu Gly Arg Gly Leu Val Arg Leu Gly Gln
 245 250 255

Ala Val Glu Arg Gly Asp Glu Glu Thr Phe Ala Ala Leu Phe Ala Glu
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Ala Arg Met Phe Thr Ala Leu His Pro
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<211> 387

<212> DNA

<213> *Streptomyces pristinaespiralis*

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<212> PRT

<213> Streptomyces pristinaespiralis

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Asp Ala Ala Leu Leu Asp Ala Val Arg Thr Arg Leu Asp Ile Cys Leu

35 40 45

Arg Ile Gly Glu Tyr Lys Arg Leu His Gln Val Pro Met Met Gln Pro

50 55 60

His Arg Ile Ala Gln Val His Ala Asn Ala Ala Arg Tyr Ala Ala Asp

65 70 75 80

His Gly Ile Asp Pro Ala Phe Leu Arg Thr Leu Tyr Asp Thr Ile Ile

85 90 95

Thr Glu Thr Cys Arg Leu Glu Asp Glu Trp Ile Ala Ser Gly Gly Ala

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Pro Val Pro Thr Pro Val His Ala Ser Ala Ser Ala Arg Gly Ala Val

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Ser Pro

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<210> 6

<211> 4496

<212> DNA

<213> *Streptomyces pristinaespiralis*

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<211> 356

<212> PRT

<213> Streptomyces pristinaespiralis

<400> 8

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Ala Val Gly Arg Asp Glu Leu Met Arg Arg Ile Ile Asp Arg Leu Thr

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Gly Gly Leu Ala Glu Ile Gly Arg Gly Glu Arg His Leu Ser Pro Leu

35

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45

Arg Gly Gly Leu Glu Arg Ser Glu Pro Val Pro Gly Ile Trp Glu Trp
50 55 60

Met Pro His Arg Glu Pro Gly Asp His Ile Thr Leu Lys Thr Val Gly
65 70 75 80

Tyr Ser Pro Ala Asn Pro Gly Arg Phe Gly Leu Pro Thr Ile Leu Gly
85 90 95

Thr Val Ala Arg Tyr Asp Asp Thr Thr Gly Ala Leu Thr Ala Leu Met
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Asp Gly Val Leu Leu Thr Ala Leu Arg Thr Gly Ala Ala Ser Ala Val
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Ala Ser Arg Leu Leu Ala Arg Pro Asp Ser His Thr Leu Gly Leu Ile
130 135 140

Gly Thr Gly Ala Gln Ala Val Thr Gln Leu His Ala Leu Ser Leu Val
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Leu Pro Leu Gln Arg Ala Leu Val Trp Asp Thr Asp Pro Ala His Arg
165 170 175

Glu Ser Phe Ala Arg Arg Ala Ala Phe Thr Gly Val Ser Val Glu Ile
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Ala Glu Pro Ala Arg Ile Ala Ala Glu Ala Asp Val Ile Ser Thr Ala
195 200 205

105443650

Arg Gly His Gly Pro Gly Glu Cys Pro Thr Ala Glu Arg Val Trp Phe
 355 360 365

Glu Glu His Met Asn Leu Pro Cys His Pro Gly Leu Ser Asp Gly Gln
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Val Asp Tyr Met Val Glu Ala Val Thr Arg Ala Leu His Glu Ala His
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Gly Thr Gly Thr Arg Val Ala Ala Gly His Leu Pro
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<210> 14

<211> 2220

<212> DNA

<213> Streptomyces pristinaespiralis

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<212> PRT

<213> *Streptomyces pristinaespiralis*

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Tyr Asn Leu Phe Gln Met Leu Ala Glu Val Asn Gly Ala Ala Pro Leu

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Val Val Arg Asn Asp Asp Thr Arg Thr Trp Gln Ala Leu Ala Pro Gly

35 40 45

Asp Phe Asp Asn Val Val Val Ser Pro Gly Pro Gly His Pro Ala Thr

50 55 60

Asp Thr Asp Leu Gly Leu Ser Arg Arg Val Ile Thr Glu Trp Asp Leu

65 70 75 80

Pro Leu Leu Gly Val Cys Leu Gly His Gln Ala Leu Cys Leu Leu Ala

85 90 95

Gly Ala Ala Val Val His Ala Pro Glu Pro Phe His Gly Arg Thr Ser

100 105 110

Asp Ile Arg His Asp Gly Gln Gly Leu Phe Ala Asn Ile Pro Ser Pro

115 120 125

Leu Thr Val Val Arg Tyr His Ser Leu Thr Val Arg Gln Leu Pro Ala

130 135 140

Asp Leu Arg Ala Thr Ala His Thr Ala Asp Gly Gln Leu Met Ala Val

145	150	155	160
Ala His Arg His Leu Pro Arg Phe Gly Val Gln Phe His Pro Glu Ser			
165	170	175	
Ile Ser Ser Glu His Gly His Arg Met Leu Ala Asn Phe Arg Asp Leu			
180	185	190	
Ser Leu Arg Ala Ala Gly His Arg Pro Pro His Thr Glu Arg Ile Pro			
195	200	205	
Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Pro Ala			
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Ser Ala Pro Val Gly Glu Tyr Arg Leu His Val Arg Glu Val Ala Cys			
225	230	235	240
Val Pro Asp Ala Asp Ala Ala Phe Thr Ala Leu Phe Ala Asp Ala Pro			
245	250	255	
Ala Arg Phe Trp Leu Asp Ser Ser Arg Val Glu Pro Gly Leu Ala Arg			
260	265	270	
Phe Thr Phe Leu Gly Ala Pro Ala Gly Pro Leu Gly Glu Gln Ile Thr			
275	280	285	
Tyr Asp Val Ala Asp Arg Ala Val Arg Val Lys Asp Gly Ser Gly Gly			
290	295	300	
Glu Thr Arg Arg Pro Gly Thr Leu Phe Asp His Leu Glu His Glu Leu			
305	310	315	320

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Ala Ala Arg Ala Leu Pro Ala Thr Gly Leu Pro Phe Glu Phe Asn Leu

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Gly Tyr Val Gly Tyr Leu Gly Tyr Glu Thr Lys Ala Asp Ser Gly Gly

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Glu Asp Ala His Arg Gly Glu Leu Pro Asp Gly Ala Phe Met Phe Ala

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Asp Arg Met Leu Ala Leu Asp His Glu Gln Gly Arg Ala Trp Leu Leu

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Ala Leu Ser Ser Thr Arg Arg Pro Ala Thr Ala Pro Ala Ala Glu Arg

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Trp Leu Thr Asp Ala Ala Arg Thr Leu Ala Thr Thr Ala Pro Arg Pro

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415

Pro Phe Thr Leu Leu Pro Asp Asp Gln Leu Pro Ala Leu Asp Val His

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425

430

Tyr Arg His Ser Leu Pro Arg Tyr Arg Glu Leu Val Glu Glu Cys Arg

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445

Arg Leu Ile Thr Asp Gly Glu Thr Tyr Glu Val Cys Leu Thr Asn Met

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460

Leu Arg Val Pro Gly Arg Ile Asp Pro Leu Thr Ala Tyr Arg Ala Leu

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470

475

480

Protein Data Bank

Ala Leu Gly Tyr Phe Ala Leu Ser Gly Ala Ala Asp Leu Ser Ile Val

645

650

655

Ile Arg Thr Ile Val Ala Thr Glu Glu Ala Ala Thr Ile Gly Val Gly

660

665

670

Gly Ala Val Val Ala Leu Ser Asp Pro Asp Asp Glu Val Arg Glu Met

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Leu Leu Lys Ala Gln Thr Thr Leu Ala Ala Leu Arg Gln Ala His Ala

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Gly Ala Thr Ala Ser Asp Arg Glu Leu Leu Ala Gly Ser Leu Arg

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<210> 16

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<212> DNA

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Gly Gly Val Leu Leu Leu Glu His Gly Ser Tyr Gln Leu Ala Ser Val

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Pro Ala Leu Phe Arg Ala Thr Gly Arg Trp Ser His Ala Ser Ser Arg

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Pro Thr Cys Asn Asp Gly Cys Leu Thr Ala Val Arg Asn His Thr Cys

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Ala Pro Pro Ala

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